

I claim:

✓ 1. A dietary composition with synergistic anti-inflammatory properties in conditions induced by the activation of mast cell secretion and consequent degranulation of said cells and release of inflammatory biomolecules from said cells, comprising a proteoglycan sulfate, and, optionally, one or more of a hexosamine sulfate, a flavone, an organic extra virgin kernel seed olive oil, S-adenosylmethionine and diphenhydramine, in an appropriate excipient or vehicle.

10 2. The composition according to claim 1, wherein said sulfated proteoglycan is selected from the group consisting of non-bovine chondroitin sulfate, keratan sulfate, dermatan sulfate and hyaluronic acid.

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15 3. The composition according to claim 2, wherein said chondroitin sulfate is chondroitin sulfate C derived from shark cartilage.

20 4. The composition according to claim 1, wherein said hexosamine sulfate is D-glucosamine sulfate.

25 5. The composition according to claim 1, wherein said flavone is selected from the group consisting of quercetin, myricetin, genistein and kaempferol.

6. The composition according to claim 1, wherein said olive oil contains omega fatty acids and alpha-tocopherol.

7. A composition for treating inflammatory diseases according to claim 1, said composition being for parenteral use, comprising 300 mg each of non-bovine chondroitin sulfate C, quercetin and D-glucosamine sulfate, with an organic extra virgin kernel seed olive oil containing omega fatty acids and alpha tocopherol.

30 8. The composition according to claim 7, further supplemented with 100 mg of S-

adenosylmethionine.

9. A composition for treating inflammatory diseases according to claim 1, said composition consisting of an ointment or cream for topical application, comprising, in mg % , chondroitin sulfate, 5; and, optionally, one or more of D-glucosamine sulfate, 5; quercetin, 3; and, extra virgin kernel seed olive oil, 15.

10. A composition according to claim 9, supplemented by diphenhydramine, 5mg%.

11. A composition for treating inflammatory diseases according to claim 1, said composition consisting of a mouth wash composition, comprising chondroitin sulfate, 0.4M, and, optionally, one or more of D-glucosamine sulfate, 0.4M, quercetin, 0.3M, and S-adenosylmethionine, 0.15M, in a mouth wash vehicle.

12. A composition for treating inflammatory diseases according to claim 1, said composition consisting of a tooth paste, comprising, in mg%, chondroitin sulfate, 5; and one or more of D-glucosamine sulfate, 5; and quercetin, 3, in a tooth paste vehicle.

13. A composition for treating inflammatory diseases according to claim 1, said composition consisting of a sunscreen composition, comprising, in mg% , chondroitin sulfate, 5; and, optionally, one or more of D-glucosamine sulfate, 5; quercetin, 3; and titanium dioxide, 5; in a sun screen vehicle.

15. ALGONOT-PLUS

16. ALGONOT-PREVENT

17. ALGONOT-PROTECT

18. ALGONOT-ALLERGY

19. ALGONOT-PERIO

20. ALGONOT-DENTAL

21. ALGONOT-SUNSCREEN

22. A method of treating a subject suffering from an inflammatory disease resulting from activation and degranulation of mast cells and secretion of inflammatory molecules from said cells, said inflammatory diseases selected from the group consisting of osteoarthritis, cancer, fibromyalgia, inflammatory bowel disease, interstitial cystitis, irritable bowel syndrome, migraines, angina, chronic prostatitis, eczema, arthritis, multiple sclerosis, psoriasis, sun burn, and periodontal disease, comprising the step of administering to said subject an effective amount of a composition according to claim 1.

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